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PTO/SB/21 (04-04)

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| <b>TRANSMITTAL<br/>FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number   | 10/732,877             |                        |
|   | Filing Date          | December 10, 2003      |                        |
|   | First Named Inventor | Yi Jiang               |                        |
|   | Art Unit             | 1724                   |                        |
|   | Examiner Name        |                        |                        |
| Total Number of Pages in This Submission  |                      | Attorney Docket Number | 1856-36801 (9797.0-02) |

| ENCLOSURES (check all that apply)   |  |  |         |  |
|---|--|--|---------|--|
| <input type="checkbox"/> Fee Transmittal Form<br><br><input type="checkbox"/> Fee Attached<br><br><input type="checkbox"/> Amendment/Reply<br><br><input type="checkbox"/> After Final<br><br><input type="checkbox"/> Affidavits/declaration(s)<br><br><input type="checkbox"/> Extension of Time Request<br><br><input type="checkbox"/> Express Abandonment Request<br><br><input checked="" type="checkbox"/> Information Disclosure Statement<br><br><input type="checkbox"/> Certified Copy of Priority Document(s)<br><br><input type="checkbox"/> Response to Missing Parts/<br>Incomplete Application<br><br><input type="checkbox"/> Response to Missing Parts<br>under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)<br><br><input type="checkbox"/> Licensing-related Papers<br><br><input type="checkbox"/> Petition<br><br><input type="checkbox"/> Petition to Convert to a<br>Provisional Application<br><br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><br><input type="checkbox"/> Terminal Disclaimer<br><br><input type="checkbox"/> Request for Refund<br><br><input type="checkbox"/> CD, Number of CD(s) | <input type="checkbox"/> After Allowance Communication<br>to Group<br><br><input type="checkbox"/> Appeal Communication to Board<br>of Appeals and Interferences<br><br><input type="checkbox"/> Appeal Communication to Group<br>(Appeal Notice, Brief, Reply Brief)<br><br><input type="checkbox"/> Proprietary Information<br><br><input type="checkbox"/> Status Letter<br><br><input checked="" type="checkbox"/> Other Enclosure(s) (please<br>identify below):<br><br>PTO 1449 (1 p.) and 11 References |         |  |
| <table border="1"><tr><td>Remarks</td><td></td></tr></table>  |  |  | Remarks |  |
| Remarks   |  |  |         |  |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT |                   |
|--|-------------------|
| Firm<br>Or<br>Individual Name              | DEREK V. FORINASH |
| Signature                                  |                   |
| Date                                       | May 27, 2004      |

| CERTIFICATE OF TRANSMISSION/MAILING   |                |      |              |
|---|----------------|------|--------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. |                |      |              |
| Typed or Printed Name   | M. A. CRABTREE |      |              |
| Signature   |                | Date | May 27, 2004 |

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|             |   |   |                       |
|-------------|---|---|-----------------------|
| Applicants: | Yi Jiang, Harold A. Wright, and<br>Doug S. Jack | § | ART UNIT: 1724        |
|             |   | § |                       |
|             |   | § |                       |
| Serial No.: | 10/732,877                                      | § | EXAMINER:             |
|             |   | § |                       |
| Filed:      | December 10, 2003                               | § |                       |
|             |   | § |                       |
|             |   | § | CONFIRMATION NO. 6946 |
| For:        | Gaseous Hydrocarbon-Oxygen                      | § |                       |
|             | Bubble Tank Mixer                               | § |                       |

INFORMATION DISCLOSURE STATEMENT

Atty. Dkt. No.: 1856-36801 (9797.0-02)

Date: May 27, 2004

Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement, including completed Form PTO-1449, comprises a list of pertinent art of which Applicants are aware. If this application was filed prior to June 30, 2003, a copy of each publication listed on Form PTO-1449 is enclosed herewith.

The submission of this Information Disclosure Statement and the references submitted therewith is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation, that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

No Office Action on the merits has been received in the present application, and Applicant believes that no fee is due. In the event that an Office Action dated prior to the mailing date of this Information Disclosure Statement has been issued, please charge Deposit Account 03-2769,

Conley Rose, P.C., in the amount of \$180, so that this Information Disclosure Statement may be considered under Rule 1.97(c).

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Derek V. Forinash', is written over a horizontal line.

DEREK V. FORINASH

Reg. No. 47,231

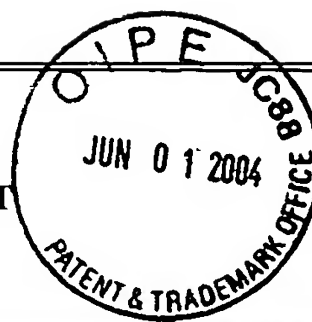
CONLEY ROSE, P.C.

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Houston, Texas 77253-3267

(713) 238-8000

ATTORNEY/AGENT FOR APPLICANT

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
 (Use several sheets if necessary)
Atty. Docket No.  
1856-36801Serial No.  
10/732,877Applicant  
Yi JiangFiling Date  
12/10/2003Group  
1734**REFERENCE DESIGNATION U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE       | NAME                      | CLASS | SUB-<br>CLASS | FILING DATE IF<br>APPROPRIATE |
|---------------------|----|--------------------|------------|---------------------------|-------|---------------|-------------------------------|
|                     | AA | 4,871,516          | 10/03/1989 | <i>Murib</i>              | 422   | 189           |                               |
|                     | AB | 4,269,791          | 05/26/1981 | <i>Hills</i>              | 261   | 36R           |                               |
|                     | AC | 5,560,900          | 10/01/1996 | <i>Gbordzoe et al.</i>    | 423   | 650           | 09/13/1994                    |
|                     | AD | 6,092,921          | 07/25/2000 | <i>Wentinck et al.</i>    | 366   | 174.1         | 01/07/1998                    |
|                     | AE | RE37,046 E         | 02/06/2001 | <i>Hildinger et al.</i>   | 585   | 867           | 08/13/1998                    |
|                     | AF | 6,267,912          | 07/31/2001 | <i>Hershkowitz et al.</i> | 252   | 373           | 04/25/1997                    |
|                     |    |                    |            |                           |       |               |                               |
|                     |    |                    |            |                           |       |               |                               |
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|                     |    |                    |            |                           |       |               |                               |

**FOREIGN PATENT DOCUMENTS**

|  |  | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-<br>CLASS | Translation |    |
|--|--|--------------------|------|---------|-------|---------------|-------------|----|
|  |  |                    |      |         |       |               | YES         | NO |
|  |  |                    |      |         |       |               |             |    |
|  |  |                    |      |         |       |               |             |    |

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |    |  |  |  |  |  |  |  |
|--|----|--|--|--|--|--|--|--|
|  | AG | A. J. Dreher, et al; <i>Liquid-phase backmixing in bubble columns, structured by introduction of partition plates</i> ; Catalysis Today 69 (2001) (pp. 165-170)                          |  |  |  |  |  |  |
|  | AH | Sanjeev Kumar et al; <i>Alternative Mechanisms of drop breakup in stirred vessels</i> ; Chem. Eng. Science, Vol. 53. No. 18 (pp. 3269-3280) 1998   |  |  |  |  |  |  |
|  | AI | Koji Takahashi, et al; <i>Bubble Sizes and Coalescence Rates in an Aerated Vessel Agitated by a Rushton Turbine</i> ; Journal of Chemical Engineering of Japan; (pp. 536-542); (undated) |  |  |  |  |  |  |
|  | AJ | M. J. Prince et al; <i>Bubble Coalescence and Break-Up In Air-Sparged Bubble Columns</i> ; AIChE Journal Oct. 1990, Vol. 36, No. 10; (pp. 1485-1499)                                     |  |  |  |  |  |  |
|  | AK | Takashi Hibiki, et al; <i>Two-group interfacial area transport equations at bubbly-to-slug flow transition</i> ; Nuclear Engineering and Design 202 (2000) (pp. 39-76)                   |  |  |  |  |  |  |
|  |    |  |  |  |  |  |  |  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.